



Telephone: (559) 233-4148 ◆ Fax: (559) 233-9645 Website Address: www.fresnocog.org

November 22, 2002

Mr. Abhijit Bagde, Senior Transp. Engineer Caltrans, Division of Programming MS 82 Federal Transportation Management Program PO Box 942874 Sacramento, CA 94274-0001

Dear Mr. Bagde:

Subject: Amendment #5 (Formal Amendment) to the FY 2002/03

through 2007/08 Council of Fresno County Governments FTIP

On November 21, 2002, the Council of Fresno County Governments Policy Board formally adopted Amendment #5 to the FY 2002/03 through 2007/08 Federal Transportation Improvement Program (FTIP). FTIP Amendment #5 amends the Congestion Mitigation & Air Quality Program by changing the scope of an existing street sweeper project for the City of Reedley.

Attached is a copy of the Board's Resolution and amendment for your review and approval. We've also attached a copy of the annotated staff report for your reference as well as emission reduction calculations for the replacement street sweeper. We have updated the California Transportation Improvement Program System (CTIPS) to reflect this amendment. If you should have any questions or comments, please feel free to call me or Tony Boren at (559) 233-4148. Thank you for your cooperation.

Sincerely,

RICK BALLANTYNE

Planning Coordinator

Council of Fresno County Governments

Attachments (7 Copies to Caltrans, Division of Programming)

CC

Doug Ito, California Air Resources Board Tom Jordan, SJVUAPCD Leigh Levine, Federal Highway Administration Bob O'Loughlin, Federal Highway Administration Paul Page, Federal Transit Administration Mark Brucker, Environmental Protection Agency Executive Directors, Valley COGs Karina O'Connor, EPA
D. Alan McCuen, Caltrans District 06
Mark Birnbaum, Caltrans District 06
Steve Curti, Caltrans District 06
Marvin Johnson, Caltrans District 06
Dana Ritschel, City of Reedley
Andrew Benelli, City of Reedley

Member Agencies: The cities of Clovis, Coalinga, Firebaugh, Fowler, Fresno, Huron, Kerman, Kingsburg, Mendota, Orange Cove, Parlier, Reedley, San Joaquin, Sanger, Selma & Fresno County

PUBLIC HEARING: FY 2002-03 thru 2007-08 Federal Transportation Improvement Program, Amendment #5, (Formal Amendment), Resolution 2002-48

<u>Summary</u>: FTIP Amendment # 5 is a City of Reedley request to change the scope of an existing street sweeper project programmed under the *Congestion Mitigation & Air Quality Program* during Fresno COG's TEA-21 2nd Cycle Allocation.

Reedley was originally awarded a PM-10 efficient street sweeper to be fueled by compressed natural gas (CNG). Unfortunately, the cities of Reedley and Orange Cove have natural gas service provided by Southern California Gas rather than by Pacific Gas and Electric. Apparently, the natural gas that comes from Southern California Gas does not meet PUC specifications. This situation has resulted in CNG Internal Combustion Engine Manufacturers refusing to honor engine warranties where non-spec gas is used for fuel. Thus, the City desires to purchase a PM-10 efficient street sweeper fueled with "green" or "bio" diesel fuel rather than CNG to insure that a warranty can be properly obtained.

COG staff performed emission reduction calculations and cost/effectiveness analysis for the "green" diesel fueled street sweeper with similar results as contained within the original CNG proposal. This amendment will not result in any change in programmed amounts. (BALLANTYNE)

Action: Staff recommends approval of FTIP Amendment #5 (Formal Amendment) by adopting Resolution 2002-48.

BEFORE THE COUNCIL OF FRESNO COUNTY GOVERNMENTS RESOLUTION NO. 2002-48

	RANSPORTATION ENT PROGRAM))))		RESOLUTION AMENDING THE 2002-03 FTIP, AMENDMENT #5 (FORMAL AMENDMENT) AMENDS THE CONGESTION MITIGATION & AIR QUALITY PROGRAM
Planning Age		the Council of Fresno County Goesignated Metropolitan Planning Or		is the designated Regional Transportation the Fresno County Region; and
to comply wit		ne 2002-03 through 2007-08 Fed quirements for local projects and is		Improvement Program has been prepared egional Transportation Plan; and
project progra		nis Amendment is a request by the pestion Mitigation & Air Quality Prog		ange the scope of an existing street sweeper
demonstrated		he Federal Highway Administration ts when compared to available fund		ance that projects submitted in the TIP be that funding is available; and
Selection Pro		he COFCG process for TIP pro		ently serving as the MPO's formal Project
WHEREAS, this Amendment has been through a public participation process by being circulated and reviewed by the Council of Fresno County Governments' member agencies representing their technical and management staffs; representatives of other governmental agencies, including State and Federal; representatives of special interest groups; representatives of the private business sector; and residents of Fresno County; and				
	WHEREAS, th	e project contained in this amendn	nent has no effect on t	he air quality conformity analysis or funding.
NOW THEREFORE BE IT RESOLVED, that the Council of Fresno County Governments hereby amends the 2002-03 through 2007-08 Federal Transportation Improvement Program reflecting the project shown in the attached exhibit.				
21st day of N	THE FOREGO lovember, 2002.	OING RESOLUTION was passed	and adopted by the (Council of Fresno County Governments this
AYES:	Clovis, Firebaugh, Fo	owler. Fresno, Kingsburg, Mendota	, Orange Cove, Reedle	ey, San Joaquin, Selma &
NOES:	Fresno County None			
ABSTAIN:	None)/
ABSENT	Coalinga, Huron, Ker	man, Parlier, and Sanger	sianal (Mi
ATTEST			Signed:	Derinis Lujan, Vice Chairman
Council of Fr		is a true copy of a resolution of ents duly adopted at a regular mee mber, 2002.		(

Signed Sarbara Apoclusian

Barbara Goodwyd, Executive Director

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#OI OAW	Project Description.			-		۵.	rogram	Program Schedule	o				
Rt/Postmile:				-		(Costs e	scalated	(Costs escalated as per State %s)	ate %s)				-
ADA/TCM							(\$ in tho	(\$ in thousands)					
Benefits:													
Fund:											Fund	Funding Source	8
AQ:				Prior	Trie	Triennial Element	nent	,				1	
Lead	Total Escalated Cost.	Status	Phase	Year(s)*	02-03	03-04	04-05	02-06	20-90	07-08	Local	State	Federal
FRE020161	(Previously FRE000149)												
CNG Fuel	Construct New CNG Fueling Station	드	R	40.0							4.6		35.4
Station	To Serve School District Buses	Progress	A.			-							
No/No	-		Const		360.0						41.3		318.7
CMAQ/Local													
Non-Exempt		-											
Fresno USD	TEC = 400,000		Total	40.0	360.0						45.9		354.1
FRE020162	(Previously FRE000151)												
L/CNG Fuel	Construct New Liquefied/Natural Gas	٩	퓝	64.1							7.4		56.7
Station	(L/CNG) Fueling Station To Serve	Progress	A.										
No/No	School District Buses		Const		9.929		_				66.1		510.5
CMAQ/Local													
Non-Exempt		•											
SW Transport.	TEC = 640,682		Total	64.1	576.6						73.5		567.2
FRE020163	(Previously FRE000146)		!			:							
State Routes	To Expand the Existing Freeway	NEW (Operations		8.69						1.6	55.8	12.4
168 & 180	Service Patrol to Serve Additional		Operations			69.8					1.6	55.8	12.4
No/Yes (TFI)	Segments of State Routes 168 and		Operations				69.8				1.6	55.8	12.4
CMAQ/SHA/Loc.	CMAQ/SHA/Loc 180 (One Additional Beat)												•
Non-Exempt		78-6			-			4.	-				
COFCG	TEC = 209,400		Total		69.8	69.8	69.8				4.8	167.4	37.2
FRE020164	Amendment #5 (Formal Amendment)		:		i								
Purchase CNG	(Previously FRE000131)		Purchase	150.0		_					29.8	14.0	106.2
Street Sweeper	Replace City's Older Diesel Street Sweeper	Progress											
No/No	With A Green Diesel Fueled Street Sweeper												
CMAQ/Local													
4.03	MODIFICATION (See Italics)												<u> </u>
Reedley	TEC = 150,000		Total	150.0							29.8	14.0	106 2
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Notes. "Prioryears dollars reflect obligated amounts. "*All CM4O projects requiring local match may be eligible for Regional Choice Matching Funds to the extent of available funding. Regional Choice Matching Funds are programmed in \$1,000 increments. This may result in the State Match exceeding 11.47% or a Local Match required. Page 27 (Amended on 11/21/02)



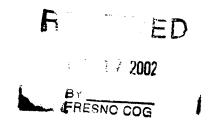
Public Works Engineering 1733 Ninth Street Reedley, CA 93654 (559) 637-4200 FAX 637-2139

Fresno County Council of Governments 2100 Tulare Street, Suite 619 Fresno, CA 93721

October 15, 2002

Re: FTIP Amendment for CML-5216(016)

Dear Mr. Ballantyne:



The City of Reedley respectfully requests that COG prepare and process a FTIP amendment regarding a change in scope (operational fuel type) with respect to the purchase of a street sweeper, project number CML-5216(016). As you know, the City cannot use the CNG sweeper originally specified because of the high sulfur content in the natural gas available in this area. The current FTIP calls for the purchase of the CNG unit and needs to be modified to allow for the purchase of the green diesel unit. Colby is preparing a memo and calculations regarding the emissions reduction aspect of this request.

If you have any questions or if there is anything else I can do to move this forward please feel free to call me at 637-4200 ext 277.

Sincerely,

Dana R Ritschel

Sr. Engineering Assistant

COUNCIL OF FRESNO COUNTY GOVERNMENTS MEMORANDUM

TO:

REEDLEY CMAO FILE

FROM:

COLBY MORROW, PLANNING COORDINATOR

SUBJECT:

REEDLEY TEA-21 CYCLE 2 COMPETITIVE BID STREET SWEEPER PROJECT

DATE:

OCTOBER 15, 2002

CC:

RICK BALLANTYNE, JASON PAUKOVITS

This memo and the attached spreadsheet printout provides documentation of the emission reductions for the Reedley PM10 efficient street sweeper project.

This project was originally awarded through the Fresno COG competitive bid portion of our TEA-21 Cycle 2 allocation. Reedley proposed the project as a PM10 efficient street sweeper to be fueled by compressed natural gas (CNG). Fresno COG calculated emission reductions for the project both for the PM10 emissions reduction replacing an old broom type sweeper with the regenerative street sweeper and for the use of the CNG alternative fuel versus regular diesel #2 fuel.

Unfortunately, the City of Reedley does not have service of Public Utilities Commission quality CNG. Unlike most of Fresno County, both Reedley and Orange Cove have natural gas service from Southern California Gas rather than from Pacific Gas and Electric. Apparently, the natural gas from So Cal Gas does not meet the PUC specifications. This results in CNG internal combustion engine manufacturers refusing to honor engine warranty if one uses the non-spec gas for fuel. Thus, the City would have no warranty for the street sweeper purchased with the CMAQ funding. Reedley staff stated that this is not an acceptable condition for purchase and COG staff concurred. Therefore, Reedley is proposing to purchase a PM10 efficient street sweeper and they plan to fuel it with "green" or "bio" diesel fuel. The project always qualified for CMAQ funding just from the PM10 reduction potential of replacing an inefficient broom street sweeper with a PM10 efficient regenerative type of sweeper. The proposal for using alternative fuel just added 161 pounds of oxides of nitrogen (NOx) to the emission reductions. The PM10 emission reductions remain at 9,256 pounds per year.

In summary, while the emissions reduction potential of the Reedley street sweeper project is lower than those reductions of the original proposal, the project is still very cost effective as demonstrated by the attached emission reduction calculations.

City of Reedley Street Sweeper Project CMAQ Emission Reduction Calculations

Street Sweeper	
Regenerative air - closed system	
LIFE	12
Annual VMT	24.375
Annual VMT/1,000	24.38
EMF (lbs PM10/1000 VMT)	825.5
Annual PM10 (lbs)	20,122
Annual PM10 (tons)	10.06
LIFE EMISSIONS -PM10 (lbs)	241,459
LIFE EMISSIONS-PM10 (tons)	120.7
*EFFICIENCY REDUCTION 46% (tons)	65.2
PM10 BEFORE - LIFE (lbs)	241,459
PM10 AFTER - LIFE (lbs)	130,388
PROJ TOTAL EMR (lbs/Proj Life)	111,071
EMR-PM10 (Kg/day)	11.50
Average Annual Emission (lbs)	9,256
Total Project Cost	\$160,400
Local Match	\$40.200
State funding (COG STIP CMAQ reserve)	\$14,000
CMAQ Cost	\$106.200
Capital Recovery Factor	0.11
Annulized Cost	\$17,644.00
Cost Effectiveness (\$/lb)	\$1.91

Notes:

- 1. These reductions apply to regenerative air or closed system sweepers only such as Tymco and Elgin Crosswind.
- 2. Closed system sweeper will reduce PM10 by 46%, Mike Bitner personal communication with Tom Jordan, SJVUAPCD
- 3. Cost figures updated 10/15/02 using information from Rick Ballantyne